Schedule No. 2

FLAT RATE SERVICE

APPLICABILITY
Applicable to all flat rate water services.

TERMS & CONDITIONS

For each additional single-family residential unit, or trailer and position,
$3.00

For each additional single-family residential unit, or trailer and position
on the same premises, and served from the same service point.
3.00

METER FEES

For each single-family residential unit, or trailer and position
$5.00

For each additional single-family residential unit, or trailer and position
on the same premises, and served from the same service point.
3.00

DECISION NO. 72787, APPLICATION NO. 49051
(November 7, 1967)

PG & E Co. granted certificate to construct and operate a nuclear generating unit of approximately 1,600,000 kilowatts at Diablo Canyon, San Luis Obispo County, subject to granting of certificate from Atomic Energy Commission.


[2] ELBERT D. CONRAD AND ASSOCIATES. In considering the installation of a nuclear power plant the Commission recognizes its responsibility to ensure that the impact on the environment will be held to a minimum and that authorities will receive adequate consideration.

(Approval is listed in Appendix A)

INTERIM OPINION

Applicant's Request

Pacific Gas and Electric Company requests a certificate of public convenience and necessity under Section 1001 of the Public Utilities Code to construct, operate and maintain a nuclear fueled power plant and transmission lines and related facilities.

Public Hearing

After due notice public hearing was held before [the appropriate Commission] at [the appropriate location] on [the date(s)] for [the purpose(s)] of determining whether the application for a certificate of public convenience and necessity should be granted.

The matter has been submitted to the court on the request for concurrent opening briefs and concurrent reply briefs which have been received and is now ready for decision.

Applicant presented evidence in support of the application through 17 witnesses and 41 exhibits. Four other witnesses testified in favor of the proposal. 18 additional supporting exhibits were received, and supporting statements were made by approximately 60 individuals most of whom represented governmental, civic or other organizations.
These in opposition to a part or the whole of the project presented 32 exhibits, the testimony of 21 witnesses and statements by three individuals.

The Commission staff did not present any evidence but it took an active part through extensive cross-examination of witnesses.

Proposed Power Plant

The power plant, as proposed, would be located upon a 685 to 785-acre site near the mouth of Diablo Canyon in San Luis Obispo County. The site is on the coast approximately 7 miles northwest of Avila Beach and 12 miles southwest of the City of San Luis Obispo. The 585 acres south of and adjoining Diablo Creek has been leased from the private landowner for a term of 99 years with an option to renew for an additional 99 years. The 100 to 200 acres required on the north side of the creek is in the process of being acquired from another private owner.

The power production facilities will be situated on a sloping terrace set back several hundred feet from the ocean and to 100 feet above sea level. The San Luis Mountains rise sharply in back of the plant site and it is planned that the 500-kv switchyard will be located in Diablo Canyon more than one half mile from the ocean and at an elevation higher than the generating unit. It appears the switchyard will not be visible from ground level at the site of the power production facilities.

The nuclear power unit for which this application is sought under this application is expected to have a net electrical output of 1,600,000 kilowatts. The unit will include a nuclear fueled steam generation system, a turbine-generator and the necessary reactor and turbine auxiliaries together with related steam plant equipment, including high voltage step-up transformers and switching equipment.

The reactor vessel will be a pressurized-water, closed cycle, forced circulation type, fueled with slightly enriched uranium dioxide enclosed in zirconium alloy tubes. Water circulated through the reactor will act as a coolant and moderator. Control will be effected through neutron absorbing control rods and a soluble chemical neutron absorber.

Steam from the steam generator will be supplied to the turbine at approximately 500°F. 70.0 and 710 pounds per square inch pressure.

Oxygen water will be circulated in the condenser cooling system at a rate of approximately 620,000 gallons per minute. Looking ahead to expected future expansion the intake structure is being designed to handle sufficient cooling water for three units, and the record shows that applicant contemplates the eventual installation of a total of six units.

To help meet the growth in power needs as illustrated by the above figures applicant has planned the following additions to its generating capacity:

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<th>Average</th>
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</table>

To help meet the growth in power needs as illustrated by the above figures applicant has planned the following additional to its generating capacity:

- Moss Landing Unit No. 6: 720 MW in Summer 1967
- Moss Landing Unit 7: 720 MW in Spring 1968
- Generators Unit 4: 26 MW in Winter 1969
- Generators Unit 6: 26 MW in Winter 1971
- Becker Hydro Plant: 1140 MW in Winter 1970
- Nuclear Unit, Diablo: 1600 MW in Spring 1972

1By Decision No. 31141, dated October 18, 1965, in Application No. 4886, P.O. and E. was authorized to guarantee bonds by other parties to San Luis Obispo Bay Properties, Inc., an affiliate of the property owner.
The action taken herein is for the issuance of a certificate of public convenience and necessity only and is not to be considered as indicative of amounts to be included in future proceedings for the purpose of determining just and reasonable rates.

It is concluded that the application should be granted to the extent set forth in the order which follows.

**INTERIM ORDER**

IT IS ORDERED that:

1. A certificate of public convenience and necessity is granted to PacifiCorp to construct, operate and maintain a nuclear fueled power generating unit of approximately 1,000,000 kilowatts capacity together with appurtenant facilities and transmission lines generally as described by applicant in this proceeding, subject to the condition that the certificate is interim in form and may be made final by further order of the Commission on the establishment by evidence in the record that final authority has been obtained from the Atomic Energy Commission to construct and operate the nuclear energy plant.

2. Prior to construction applicant shall submit an artist's rendition of the project based on the architect's design.

3. Applicant shall file with this Commission a detailed statement of the capital costs of the project including transmission lines and other appurtenances within one year following the date on which the unit is placed in commercial operation.

4. The authorization herein granted shall expire if not exercised within five years from the date hereof.

The effective date of this order shall be twenty days after the date hereof.

Dated at San Francisco, California, this 7th day of November, 1967.

**APPENDIX A**

**List of Appearances**

For Applicant: F. T. Bester, by John C. Morrissey, Philip A. Crowe, Jr., and Effie Workman.

For Opponents: Andrew Beazley, Arch E. Black, Henry C. Murphy, Thomas L. Adcox, by Andrew Beazley and Thomas L. Adcox, for O. C. Field and Ray Hale Field; Lydon & McKee, by Paul L. McKee, for Secane Shopping Preservation Committee, and Fred Minster, for self.

**Concurring Opinion**

WILLIAM M. BENNETT, CONCURRING OPINION

While I concur—reluctantly—in today's order, I am compelled to point out that little has been learned from the series of mistakes which led to the rejection of a nuclear plant at Bodega Bay. The record makes it abundantly clear that the initiative here as to the selection of nuclear sites—precise coast line—is clearly in the hands of the utility. This stems from the fact that it operates in the public's interest, and yet aware of the fact that nuclear power plants are going to be built in the California landscape in increasing numbers, the public utilities are left to themselves to pick and choose desirable beach properties for utility construction purposes. What is called for is attention by the Legislature—to no one else—to the concept of seeing that everything is done in a public setting which would insure a minimum of interference with recreational areas. And this is a function which should be undertaken by this Commission in a broad investigation to determine how many nuclear plants are to be constructed for all reasons and where located. Absent a broad development program for location of these plants, the public utilities are going to go as has much of the other natural beauty of California.
Applicant’s Request:
Pacific Gas and Electric Company requests a certificate of public convenience and necessity under Section 10XX of the Public Utilities Code to construct, operate and maintain a nuclear fueled power plant at a site in Diablo Canyon, San Luis Obispo County, together with transmission lines and related facilities.

Proposed Power Plant

The power plant, as proposed, would be located upon a 685-785 acre site near the mouth of Diablo Canyon in San Luis Obispo County. The site is on the coast approximately 7 miles northwest of Avila Beach and 12 miles southwest of the City of San Luis Obispo. The 585 acres south of land adjoining Diablo Creek has been leased from the private landowner for a term of 99 years with an option to renew for an additional 99 years. The 100 to 200 acres required on the north side of the creek is in the process of being acquired from another private owner.

The power production facilities will be situated on a sloping terrace set back several hundred feet from the ocean and 70 to 100 feet above sea level. The San Luis Mountains rise sharply in back of the plant site and it is planned that the 500 kv switchyard will be located in Diablo Canyon more than one-half mile from the ocean at an elevation higher than the generating unit. It appears the switchyard will not be visible from ground level at the site of the power production facilities.

The nuclear power unit for which authorization is sought under this application is expected to have a net electrical output of 1,060,000 kilowatts. The unit will include a nuclear fueled steam generating system; a turbine-generator and the necessary reactor and turbine auxiliaries together with related steam plant equipment, including high voltage step-up transformers and switching equipment.

The reactor system will be a pressurized-water, closed cycle, forced circulation type, fueled with slightly enriched uranium dioxide enclosed in zirconium alloy tubes. Water circulated through the reactor will act as a coolant and moderator. Control will be effected through neutron absorbing control rods and a soluble chemical neutron absorber. Steam from the steam generator will be supplied to the turbine at approximately 506°Fahrenheit and 710 pounds per square inch pressure. Ocean water will be circulated in the condenser cooling system at a rate of approximately 820,000 gallons per minute. Looking ahead to future expansion the intake structure is being designed to handle sufficient cooling water for three units, and the record shows the applicant contemplates the eventual installation of a total of six units.

The switchyard area as shown in Exhibit No. 5 is sized to accommodate switchgear for six units but the initial installation of equipment will be only that necessary for one or two units.

The reactor containment structure will consist of a reinforced concrete vertical cylinder with a flat base and hemispherical dome. A welded steel liner attached to the inside face of the concrete shell will assure a high degree of leak tightness.

1 By Decision No. 71441, dated October 18, 1966 in Application No. 43806 P.G. and E. was authorized in guarantee loans by other parties to San Luis Bay Properties, Inc. an affiliate of the property owner.
IT IS ORDERED that:
1. A certificate of public convenience and necessity is granted to Pacific Gas and Electric Company to construct, operate and maintain a nuclear fueled power generating unit of approximately 1,060,000 kilowatts capacity together with appurtenant facilities and transmission lines generally described by applicant in this proceeding, but subject to the condition that the certificate is interim in form and may be made final by further order of the Commission on the establishment by evidence in the record that final authority has been obtained from the Atomic Energy Commission to construct and operate the nuclear energy plant.
2. Prior to construction applicant shall submit an artist’s rendition of the project based on the architect’s design.
3. Applicant shall file with this Commission a detailed statement of the capital costs of the project including transmission lines and other appurtenances within one year following the date on which the units is placed in commercial operation.
4. The authorization herein granted shall expire if not exercised within five years from the date hereof.

The effective date of this order shall be twenty days after the date hereof.

Dated at San Francisco, California, the 7th day of November, 1967.